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Set	Items	Description
S1	15122	MOTORCYCLE? OR MOTOR() (CYCLE? OR BIKE? ? OR BICYCLE?) OR M- OTOCYCLE? OR MOTORBIKE?
S2	32	JACK()SHAFT? ?

S3 0 (WIDE OR WIDER OR ENLARG?) () (REAR OR BACK) (5N) (TIRE OR TIR-
 ES OR TYRE? ? OR WHEEL? ?)
 S4 186 INTERMEDIATE() SHAFT? ?
 S5 2 TRANSMISSION(2N) GEAR? ? AND REAR() (WHEEL? ? OR TIRE? ? OR -
 TYRE? ?) (3N) GEAR? ?
 S6 45 SOFTTAIL? OR SOFT() TAIL? ? OR SOFT-TAIL?
 S7 656 TRANSMISSION() SHAFT?
 S8 1027 DRIVE() GEAR? ?
 S9 699 DRIVE() BELT? ?
 S10 0 S1 AND S2
 S11 0 S1 AND (S4 OR S5 OR S6)
 S12 8 S1 AND (S7 OR S8 OR S9)
 S13 7 RD (unique items)
 S14 1089 (WIDE OR WIDER OR ENLARG?) (5N) (TIRE OR TIRES OR TYRE OR TY-
 RES OR WHEEL OR WHEELS)
 S15 14 S1 AND S14
 S16 14 RD (unique items)
 S17 14 S16 NOT S13
 S18 0 AU="BOURGET J R"
 S19 0 AU="BOURGET JOSEPH"
 S20 0 AU="BOURGET, J. R."
 S21 0 AU="BOURGET, JOSEPH"

13/3,AB/1 (Item 1 from file: 32)
DIALOG(R)File 32:METADEX(R)
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1034632 MA Number: 199601-57-0136

Polishing and buffing.

Carlson Jr, G A
Acme Manufacturing
USA, 1994

Prod. Finish. (Cincinnati) 59, (2A, (Suppl.)), 310,312,314,316-317

Nov. 1994

ISSN: 0032-9940

Country of Publication: USA

Journal Announcement: 9601

Language: ENGLISH

Abstract: Polishing and buffing of functional (e.g. transmission shafts, gears, medical prosthesis or implants) or decorative parts (e.g. decorative locks, cookware, golf clubs, motorcycles) is often necessary. In this industry there is a definite trend to minimize hand polishing and an increase in using automated systems. Specific examples of automated buffing/polishing systems for use on brass hardware, engine cylinder heads, aluminum wheels and plumbing housings that are based on new finishing media, robotics, and CNC technology are discussed.

13/3,AB/2 (Item 2 from file: 32)
DIALOG(R)File 32:METADEX(R)
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0953935 MA Number: 199311-56-1484

Study and Application of GL-90 P/M Steel for Motorcycle Parts.

Yang, D T ; Wang, J ; Chen, A H ; Xia, D R

East China Institute of Technology

Powder Metallurgy Technology (China) 10, (4), 274-281 1992

ISSN: 1001-3784

Country of Publication: People's Republic of China

Journal Announcement: 9311

Language: CHINESE

Abstract: The relations between mechanical properties and microstructures and densities and tempering temperatures of high strength heat treatable GL-90 P/M steel have been tested. After being hardened in controlled atmosphere and tempered at low temperature, P/M steel with the density > 6.90 g/cm³ had a structure with fine bundles of strip martensite and the optimum combination of mechanical properties, similar to Japanese H-90 heat treated P/M steel and had high strength up to 890 MPa and wear resistance superior to 45 lb steel. The inner and outer sleeve irregularly shaped gears of transmission shaft for Jincheng motorcycle have been successfully made from GL-90 P/M steel. Graphs; Photomicrographs. 2 ref.

13/3,AB/3 (Item 3 from file: 32)
DIALOG(R)File 32:METADEX(R)
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0844359 MA Number: 91-610144

Recent Trends of Precision Forging for Motor Parts.

Maki, T

Denki Seiko (Electric Furnace Steel) 61, (1), 48-54 Jan. 1990

ISSN: 0011-8389

Journal Announcement: 9103

Language: JAPANESE

Abstract: The history of precision forging technology for motor parts began with transmission gears and transmission shafts for motorcycles in

1963, and now it has spread to many gears for automobiles. Since 1980, as production of "C--V (constant velocity joints)" has multiplied with a rapid increase in F.F. Car, precision forging technology of its components has developed quickly. Especially practical technology of cold forging in big parts, semi-hot forging and closed die forging have progressed markedly. From now on, advance of precision forging technology will be accelerated more with high precision steel bars, progress of die material, improvement of forging system and so on. Graphs. 10 ref.--AA

13/3,AB/4 (Item 1 from file: 323)
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00497613

TITLE: THREE YEARS OF RECESSION
SOURCE: Macplas International; July 1993, p.69-70
ISSN: 0394-3453
JOURNAL ANNOUNCEMENT: 199401 RAPRA UPDATE: 199326
DOCUMENT TYPE: Journal Article
LANGUAGE: English
SUBFILE: (R) RAPRA
ABSTRACT: Based on information presented at the 1993 annual general meeting of Assogomma, a survey is made of economic trends in the Italian rubber industry in 1992. Statistics are given for production of tyres and non-tyre products, rubber consumption and imports and exports of rubber goods in 1991 and 1992.

13/3,AB/5 (Item 2 from file: 323)
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00156539

TITLE: SYNCHRONOUS BELT FOR MOTORCYCLE DRIVES
CORPORATE SOURCE: Gates Rubber Co.
SOURCE: Automotive Engineering; 88, No.8, Aug.1980, p.118
ISSN: 0098-2571
CODEN: AUEGBB JOURNAL ANNOUNCEMENT: 198012 RAPRA UPDATE: 198201
DOCUMENT TYPE: Journal Article
LANGUAGE: English
ABSTRACT: Poly Chain is a rubber **drive belt** from the above company, available as original equipment on 1980 Harley-Davidson and Kawasaki **motor cycles**. The toothed belting requires no lubrication and very little adjustment, and is made of PU elastomer reinforced with high tensile strength cords.

13/3,AB/6 (Item 3 from file: 323)
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00155874

TITLE: GATES REPLACES CHAIN DRIVE WITH PU BELT
CORPORATE SOURCE: Gates Rubber Co.
SOURCE: Elastomerics; 112, No.7, July 1980, p.45
ISSN: 0146-0706
CODEN: ELASDA JOURNAL ANNOUNCEMENT: 198011 RAPRA UPDATE: 198201
DOCUMENT TYPE: Journal Article
LANGUAGE: English
ABSTRACT: The invention and production of a belt made on a polyurethane elastomer body, which will replace the chain drive on **motor cycles**, has been announced by the above company. The belt, named Poly Chain, is

a toothed belt that functions in much the same manner as chain or gear drives. The PU elastomer body forms the teeth of the belt and the durable cover. Aramid fibre tensile members provide the strength necessary to transmit the **motorcycle** power output.

13/3,AB/7 (Item 4 from file: 323)
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00153253

TITLE: DUAL-BELT DRIVE HUSHES MOTORCYCLE NOISE

AUTHOR(S): McComber D; Redmond J

SOURCE: Machine Design; 52, No.10, 8th May 1980, p.78-9

ISSN: 0024-9114

CODEN: MADEAP **JOURNAL ANNOUNCEMENT:** 198010 **RAPRA UPDATE:** 198201

DOCUMENT TYPE: Journal Article

LANGUAGE: English

ABSTRACT: A brief description is given of a new **drive belt** for a new Harley-Davidson **motorcycle**. The belt is manufactured in a vacuum centrifugal-casting process from three materials:- PU elastomer, which makes up the body of the belt including the teeth and back, nylon fabric, which provides a low-friction, wear resistant surface for the teeth and aramid fibres which give the belt high tensile strength.

17/3,AB/1 (Item 1 from file: 63)
DIALOG(R)File 63:Transport Res(TRIS)
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00386127 DA

TITLE: NOTES FROM THE IRON AGE: HERK MERKEL'S MOTORCYCLE GAZETTE

AUTHOR(S): West, T

CORPORATE SOURCE: Quinn Publications, Incorporated, P.O. Box 6040, Compton,
CA, 90224 ,

REPORT NUMBER: HS-029 171

JOURNAL: Cycle Guide Vol: 14 Issue Number: 6 Pag: pp 50-54

PUBLICATION DATE: 19800600 **PUBLICATION YEAR:** 1980

LANGUAGE: English **SUBFILE:** HSL (S 8403)

AVAILABILITY: Quinn Publications, Incorporated; P.O. Box 6040 ; Compton
; CA ; 90224

DATA SOURCE: National Highway Traffic Safety Administration

ABSTRACT: Quaint ideas from the early days of motorcycling are reviewed, with their original illustrations reproduced. In 1931, "Popular Mechanics" featured a new concept on its cover, a "tractor **motorcycle**" (shown climbing a mountain). In 1922, the Solomobile was offered, a wooden **motorcycle** do-it-yourself kit which featured a flat felt pad seat engine not included). A 1910 model was made from plumbing pipe. Two other cycles were also designed in 1910: one was among the earliest applications of the **motorcycle** in life-saving roles, an English three-wheeled firefighter equipped with light ladders and hoses; and a **motorcycle** produced in Maine had two extra rear wheels mounted on either side of the main driving wheel. On level pavement the extra wheels did not contact the road, but acted as stabilizers on negotiating a curve. "Popular Mechanics" ran a drawing in 1911 of a snowsled on wheels. In 1910, the English introduced the "weather-protected" sidecar attached by a third **wheel** , designed mainly for bachelors. A **wide** variety of etched-glass windshields was made available, depicting the woman of the rider's choice. In 1917, a mechanic built a steam-powered **motorcycle** , the Steam Bike, which had a generous 75 in. wheelbase, and a seat mounted on a movable clamp. In 1911, "Popular Mechanics" described a **motorcycle** with an aluminum shaft drive and worm gear; the exposed engine was mounted on the frame between the driver's feet. A final concept, pictured on an early cover of "Science and Mechanics," illustrated a cycle chariot race.

17/3,AB/2 (Item 1 from file: 323)
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00838558

TITLE: NEW TYRES FOR THE BIKER

AUTHOR(S): Schmidt P

SOURCE: Gummibereifung; 76, No.10, 2000, p.40-2

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200202 **RAPRA UPDATE:** 200203

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: This report reviews a **wide** range of **tyres** for scooters, **motorcycles** and choppers. It looks at the structure of such tyres, including radial design, belting and dimensions. It examines products from Korea and China. It also describes tread patterns and sizes fitted on the assembly line.

17/3,AB/3 (Item 2 from file: 323)
DIALOG(R)File 323:RAPRA Rubber & Plastics

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00795713

TITLE: TYRE MAKERS BUDGET 1,600 MILLION US DOLLARS TO EXPAND

AUTHOR(S): Davis B; Mikolajczyk S J

SOURCE: European Rubber Journal; 182, No.11, Suppl.Nov.2000, p.14/7

ISSN: 0260-5317

CODEN: ERJTDW JOURNAL ANNOUNCEMENT: 200102 RAPRA UPDATE: 200102

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

ABSTRACT: It is explained here that **tyre** companies world- wide have collectively budgeted almost 1,600 million US dollars in the past twelve months, for expansion around the globe. The bulk of this article is a list (by geographical area) of specific capacity expansion projects. Plant openings and closures are also listed.

17/3,AB/4 (Item 3 from file: 323)

DIALOG(R)File 323:RAPRA Rubber & Plastics

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00777237

TITLE: FASCINATION OF A NUDE

AUTHOR(S): Schmidt P; Voigt A

SOURCE: Gummibereifung; 75, No.9, Sept.1999, p.108-9

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200009 RAPRA UPDATE: 200017

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: This report looks at the Honda CB 600 F Hornet **motor cycle** and a range of **motor cycle** tyres from different manufacturers to suit it. It examines aspects of performance such as vibration, cornering and **wide motor cycle tyres**, as well as grip and running performance.

17/3,AB/5 (Item 4 from file: 323)

DIALOG(R)File 323:RAPRA Rubber & Plastics

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00777235

TITLE: INTO BREADTH

AUTHOR(S): Schmidt P

SOURCE: Gummibereifung; 75, No.9, Sept.1999, p.104

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200009 RAPRA UPDATE: 200017

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: The Dyna Super Glide Sport **motor cycle** has scarcely been on the market for a year and already an updated model is being presented. Harley is meeting customer requirements and that also involves **wider motor cycle tyres**. Here relevant **tyre** speeds are examined, including tread patterns and the German TUV's seal of approval. Dunlop and Metzeler products are surveyed as suitable for the Harley Dyna Super Glide Sport. Comment is also made on Metzeler's new release.

17/3,AB/6 (Item 5 from file: 323)

DIALOG(R)File 323:RAPRA Rubber & Plastics

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EIC 3600 April 15, 2002 14:11

00777223

TITLE: NEW PRODUCTS, NEW GOALS

AUTHOR(S): Schmidt P

SOURCE: Gummibereifung; 75, No.9, Sept.1999, p.40-1

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200009 RAPRA UPDATE: 200017

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: There is a lot of new growth to be seen in the German offshoot of Cooper-Avon Tyres. Staff, products and marketing concepts feature greatly in this. It is also called Cooper-Avon Reifen. With the acquisition of the English parent company Avon Tyre by the American tyre producer Cooper from Findlay in Ohio, a new era has begun for the German subsidiary in Wilnsdorf, Siegerland. Management changes are reviewed, along with a range of new Cobra and Avon car **tyres**, covering the **wide tyre** market. Involvement of **motor cycle** tyre sales is examined, also imports, event marketing and Cooper's multibrand strategy. Avon's time-honoured brand ranks somewhere between Fulda and Pneumant. Other topics touch on dealer marketing and customer support.

17/3,AB/7 (Item 6 from file: 323)

DIALOG(R)File 323:RAPRA Rubber & Plastics

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00774012

TITLE: THERE ARE NEVER ENOUGH NEW RELEASES

AUTHOR(S): Schmidt P

SOURCE: Gummibereifung; 75, No.6, June 1999, p.104-5

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200008 RAPRA UPDATE: 200015

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: The issue of fitting an old **motor cycle** with modern tyres forms the focus of this article. The question arises what tyres are allowed. A table is given for a **wide** range of **motor cycle tyres**, showing brands and available sizes for front and rear wheels to fit two classic **motor cycles**, the Kawasaki GPX750R and the Suzuki GSX-R1100. Issues of post-homologation are addressed. Belted **motor cycle** tyres with diagonal carcasses are discussed in relation to these **motor cycles**, as well as Metzeler's tyre advisory service on the Internet. Opportunities for finding out about new releases are evaluated, including the 'Moris' software from the tyre firm Reifen Krupp.

17/3,AB/8 (Item 7 from file: 323)

DIALOG(R)File 323:RAPRA Rubber & Plastics

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00756936

TITLE: METZELER IS DEVELOPING A WIDE RANGE OF SCOOTER TYRES

AUTHOR(S): Schmidt P

SOURCE: Gummibereifung; 73, No.9, Sept.1997, p.63-4

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 200003 RAPRA UPDATE: 200004

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: Germany's market leader from Munich, hitherto known as a high-tech tyre manufacturer for supersport **motor cycles**, is strengthening its market share of scooter tyres. Metzeler's new ME 7-Teen scooter tyre range is reviewed regarding its popularity, its suitability for a wide range of scooter engine capacities and its development as a radial tyre taking its tread pattern from the successful Metzeler high performance ME Z1 radial tyre. The ME 7-Teen range is being fitted to scooters like the Aprilia SR 50 Replica, creating the sporty image we expect in a supersport **motor cycle** like the Suzuki GSX-R 750 fitted with Metzeler ME Z1 tyres. The transverse tread pattern of the ME 7-Teen range is discussed, including wet grip properties and groove pattern. Also covered is the running surface contouring, as well as the safety of tread and the nylon carcass construction. A full fitting cart for the ME 7-Teen range is included in this article, listing all types of suitable scooter makes.

17/3,AB/9 (Item 8 from file: 323)
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00739336

TITLE: BRIDGESTONE AND FIRESTONE GROW TOGETHER IN HARMONY

AUTHOR(S): Mutz K

SOURCE: Gummibereifung; 72, No.10, Oct.1996, p.61/4

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 199909 **RAPRA UPDATE:** 199917

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: The business performance of Bridgestone/Firestone Deutschland GmbH is reviewed for the first ten months of 1996. The business turnover is looked at, alongside growth in its market share, fall-off in the winter tyre trade and the poor performance in the heavy vehicle tyre business. The streamlining of business practices and the use of computer systems are both discussed. New products are reviewed such as the Bridgestone BT 56/57 **motor cycle** tyres, the Bridgestone S-02 ultra-high performance **wide tyre**, Firestone agricultural **tyres** and the new Bridgestone WT11 winter tyre.

17/3,AB/10 (Item 9 from file: 323)
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00737025

TITLE: BRIDGESTONE/FIRESTONE IS SENDING OUT 'IMPULSES FOR THE TRADE'

AUTHOR(S): Ziese V

SOURCE: Gummibereifung; 72, No.8, Aug.1996, p.75

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 199909 **RAPRA UPDATE:** 199916

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: Information is given on a **wide** range of **tyres** from the firms Bridgestone and Firestone. The Bridgestone/Firestone marketing technique is examined at the Essen Tyre Fair through using videos and artificially designed pictograms to promote tyres with new tread patterns and sizes for cars, **motor cycles** and trucks.

17/3,AB/11 (Item 10 from file: 323)
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00703949

TITLE: AFTER THE TURNING-POINT THE FIRM GETS NEW VITALITY

AUTHOR(S): Mutz K

SOURCE: Gummibereifung; 72, No.12, Dec.1996, p.58-9

ISSN: 0017-5609

JOURNAL ANNOUNCEMENT: 199902 RAPRA UPDATE: 199901

DOCUMENT TYPE: Journal Article

LANGUAGE: German

SUBFILE: (R) RAPRA

ABSTRACT: The history of the tyre firm Reifen Klein, based in Zossen just south of Berlin, is traced from 1926. Also reviewed is its recent investment of 1.2 million German marks in buildings, facilities for customers and offices as well as its sales performance and modern **wide tyre** technology. Alongside this, the firm's vulcanising work is examined as well as its 24-hour heavy vehicle service, its tyre fitting and balancing service, its **motor cycle** tyres and repair facilities. Other topics include performance potential and turnover with its Pneumant brand of tyres.

17/3,AB/12 (Item 11 from file: 323)

DIALOG(R) File 323:RAPRA Rubber & Plastics

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00634304

TITLE: COMPOSITE COMMUTER ELECTRIC CAR ONLY FOUR MONTHS FROM PRODUCTION

SOURCE: Advanced Materials Newsletter; 19, No.7, 14th April 1997, p.4

ISSN: 1357-2490

JOURNAL ANNOUNCEMENT: 199708 RAPRA UPDATE: 199714

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

ABSTRACT: The Sparrow composite urban commuter car is on track for production to begin about August 1997 at a plant in Hollister, California. Corbin-Pacific first announced the electric car in December. The innovative composite car was developed by a **motorcycle** aftermarket seat manufacturer to meet the apparent market opportunity derived from the fact that an estimated 87% of the US population commutes less than 18 miles to work and back daily (with the vast majority being alone). Debuted at the San Francisco Auto Show, the Sparrow is classified as a **motorcycle** for commuter purposes, as the driver occupies 100% of the solo seating capacity. A monocoque composite chassis and a monocoque composite body or aeroshell comprise the vehicle. These two primary components along with 540 lb of batteries and other components total 990 lb for the entire 3- **wheel** car, which is 4 ft. **wide** and 8 ft. long. The composite components are fabricated using the resin transfer moulding method with E-glass fibre reinforcement in a polyester resin matrix. Brief details are given.

17/3,AB/13 (Item 12 from file: 323)

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00602720

TITLE: TYRE INDUSTRY AND MARKET IN MALAYSIA

AUTHOR(S): Razali B

CORPORATE SOURCE: OSK & Partners

SOURCE: Rubber Trends; No.3, 1996, p.27-34

ISSN: 0035-9564

JOURNAL ANNOUNCEMENT: 199611 RAPRA UPDATE: 199622

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

ABSTRACT: Malaysia produces a wide range of tyres , from bicycle tyres to high technology tyres for aircraft. Output in 1995 is estimated at 11.4m units. Turnover in the last 15 years has risen from 300m Malaysian dollars in 1980 to 1.1bn Malaysian dollars in 1995. Exports remain a significant part of turnover, accounting for 10-35% among individual companies. Four firms currently dominate the domestic market: DMIB, Goodyear (Malaysia), Sime Tyres and Silverstone. Competition between these four companies in the domestic market is intense and has led to fierce discounting.

17/3,AB/14 (Item 13 from file: 323)

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00561289

TITLE: CHENG SHIN TIRE: THE 'CORRECT AND MODERN' GIANT

SOURCE: Tyres & Accessories; Sept.1995, p.108-11

ISSN: 0041-4859

JOURNAL ANNOUNCEMENT: 199512 RAPRA UPDATE: 199522

DOCUMENT TYPE: Journal Article

LANGUAGE: English

SUBFILE: (R) RAPRA

ABSTRACT: Cheng Shin Tire produces quite a wide range of tyres , many covering specialised applications. Because they are so specialised, quantities are relatively low, although there are relatively fewer companies taking a share of these markets. Details are given of the company's current set-up and future plans.